

LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Currently amended) A discrete speaker for use in a distributed digital wireless loudspeaker system having at least two discrete speakers and means for transmitting an RF signal including a transmission clock and at least two audio channels of transmission data, the speaker comprising:

~~means for receiving an the RF signal, including a transmission clock and at least two channels of transmission data and broadcasting sound based upon the received RF signal, including-~~

~~means for generating a derived sample clock based upon a the transmission clock,~~

~~means for selecting one of the audio channels from the RF transmission data signal for broadcast,~~

~~means for generating an output audio data signal based upon the selected audio channel, and~~

~~means for broadcasting sound based upon the output selected audio data channel.~~

2. (Currently amended) The apparatus-speaker of claim 1 wherein the received RF signal further includes status data.

3. (Currently amended) The ~~apparatus~~speaker of claim 2, ~~wherein further comprising means, responsive to a control signal in the status data, includes a control signal for selectively activating the wireless speaker.~~
4. (Currently amended) The ~~apparatus~~speaker of claim 2, ~~wherein further comprising means for responding to a control signal in the status data includes a control signal operable for controlling volume of the broadcast sound.~~
5. (Currently amended) The ~~apparatus~~speaker of claim 2, ~~wherein further comprising means for responding to a control signal in the status data includes a control signal operable for controlling equalization of the broadcast sound.~~
6. (Currently amended) The ~~apparatus~~speaker of claim 1, ~~wherein the means for transmitting transmits receiving receives two RF signals at two different frequencies, each RF signal based upon including one of the transmission data audio channels.~~
7. (Currently amended) The ~~apparatus~~speaker of claim 1, ~~wherein the RF signal further includes a channel of status data.~~
8. (Currently amended) The ~~apparatus~~speaker of claim 7, ~~wherein the two channels of audio transmission data and the status channel are multiplexed prior to transmission, and the speaker further including includes means for demultiplexing the received RF signal.~~

9. (Currently amended) The apparatus-speaker of claim 4 2, further including comprising means, responsive to a control signal in the status data for assigning the speaker to a speaker group, and means for selectively activating the speaker based on the speaker group to which the speaker is assigned to it.

10. (Currently amended) The apparatus-speaker of claim 1 wherein the RF signal includes frame markers, and the speaker further including comprises means, responsive to the frame markers, for synchronizing the sound broadcast by the speaker based upon the frame markers with the sound broadcast by each other speaker in the wireless loudspeaker system.

11. (Cancelled) The speaker of claim 10, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

12. (Cancelled) The apparatus of claim 11, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

13. (Cancelled) The apparatus of claim 11, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RE transmission clock.

14. (Currently amended) A discrete speaker for use in a distributed digital wireless loudspeaker system having at least two discrete speakers and means for transmitting

an RF signal including at least two audio channels of transmission data, the speaker comprising:

means for receiving an~~the~~ RF signal including the ~~the~~ at least two audio channels of transmission data, and broadcasting sound based upon the received RF signal, including-

——means for selecting one of the audio channels of transmission data,

——means for generating output audio data based upon the selected audio channel, and

——means for broadcasting sound based upon the ~~output~~selected audio data channel.

15. (Currently amended) The apparatus-speaker of claim 14 wherein the received RF signal includes status data.

16. (Currently amended) The apparatus-speaker of claim 15, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for selectively activating the wireless-speaker.

17. (Currently amended) The apparatus-speaker of claim 15, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for controlling volume of the broadcast sound.

18. (Currently amended) The apparatus-speaker of claim 15, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for controlling equalization of the broadcast sound.

19. (Currently amended) The apparatus-speaker of claim 14 further including comprising means, responsive to a control signal in the status data for assigning the speaker to a speaker group, and means for selectively activating the speaker based on the speaker group to which the speaker is assigned to it.

20. (Currently amended) The apparatus-speaker of claim 14 wherein the RF signal includes frame markers, and the speaker further including comprises means, responsive to the frame markers, for synchronizing the speaker based upon the frame marker with the sound broadcast by each other speaker in the wireless loudspeaker system.

21. (Cancelled) The apparatus of claim 20, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

22. (Cancelled) The apparatus of claim 21, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

23. (Cancelled) The apparatus of claim 21, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

24. (Currently amended) A discrete speaker for use in a distributed digital wireless loudspeaker system having at least two discrete speakers and means for transmitting an RF signal including at least two audio channels of transmission data and frame markers appearing at predetermined intervals in the RF signal, the speaker comprising:

means for receiving an the RF signal including the at least two audio channels of transmission data and frame markers appearing at fixed intervals and broadcasting sound based upon the received RF signal, including

——means for selecting one of the audio channels of the received RF signal,

——means for generating an output audio signal based upon the selected audio channel,

——means, responsive to the frame markers, for synchronizing the output audio signal audio based upon the frame markers with the output audio signal of each other speaker in the wireless loudspeaker system, and

——means for broadcasting sound based upon the synchronized output audio signal.

25. (Currently amended) The apparatus-speaker of claim 24 wherein the received RF signal includes status data.

26. (Currently amended) The apparatus-speaker of claim 25, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for activating the wireless speaker.

27. (Currently amended) The apparatus-speaker of claim 25, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for controlling volume of the broadcast sound.

28. (Currently amended) The apparatus-speaker of claim 25, wherein further comprising means, responsive to a control signal in the status data, includes a control signal for controlling equalization of the broadcast sound.

29. (Currently amended) The apparatus-speaker of claim 24, wherein the means for transmitting transmits receiving receives two RF signals at two different frequencies, each RF signal based upon including one of the transmission channels.

30. (Currently amended) The apparatus-speaker of claim 24, wherein the RF signal includes a channel of status data, and wherein the two channels of audio transmission data and the status channel are multiplexed prior to transmission, and the speaker further including comprising means for demultiplexing the received RF signal.

31. (Currently amended) The apparatus-speaker of claim 24, further including comprising means, responsive to a control signal in the status data for assigning the speaker to a speaker group, and means for selectively activating the speaker based on the speaker group to which the speaker is assigned to it.

32. (Currently amended) A discrete speaker for use in a distributed digital wireless loudspeaker system having at least two discrete speakers and means for transmitting an RF signal including at least two audio channels of transmission data and status data, the speaker comprising:

means for receiving ~~an the~~ RF signal including at least two audio channels of transmission data and further including status data and broadcasting sound based upon the received RF signal, including

——means for selecting one of the audio channels of the received RF signal,

——means for generating an output audio signal based upon the selected channel and the status data,

——means for broadcasting sound based upon the output audio signal and the status data.

33. (Currently amended) The apparatus-speaker of claim 32, further including comprising means, responsive to a control signal for assigning the speaker to a speaker group, and means for selectively activating the speaker based on the speaker group to which the speaker is assigned to it.

34. (Currently amended) The apparatus-speaker of claim 32, wherein the RF signal includes frame markers, and the speaker further including comprises means, responsive to the frame markers, for synchronizing the sound broadcast by the speaker based upon the frame marker with sound broadcast with each other speaker in the wireless loudspeaker system.

35. (Cancelled) The apparatus-of claim 34, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

36. (Cancelled) The apparatus-of claim 35, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

37. (Cancelled) The apparatus-of claim 35, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

38. (Currently amended) A discrete speaker for use in a distributed digital wireless loudspeaker system having at least two discrete speakers and means for transmitting an RF signal including at least two multiplexed audio channels of transmission data, the speaker comprising:

means for receiving ~~an~~~~the~~ RF signal comprising ~~two multiplexed transmission data channels and broadcasting sound based upon the received RF signal, including-~~

~~—means for demultiplexing the received RF signal,~~

~~—means for selecting one of the audio channels from the demultiplexed signal for broadcast,~~

_____means for generating an output audio signal based upon the selected audio channel, and

_____means for broadcasting sound based upon the output audio signal.

39. (Currently amended) The apparatus-speaker of claim 38, wherein the RF signal further includes status data.

40. (Currently amended) The apparatus-speaker of claim 39, wherein-further comprising means, responsive to a control signal in the status data, includes a control signal for activating the wireless speaker.

41. (Currently amended) The apparatus-speaker of claim 39, wherein-further comprising means, responsive to a control signal in the status data, includes a control signal for controlling volume of the broadcast sound.

42. (Currently amended) The apparatus-speaker of claim 39, wherein-further comprising means, responsive to a control signal in the status data, includes a control signal for controlling equalization of the broadcast sound.

43. (Currently amended) The apparatus-speaker of claim 3839, further including means, responsive to a control signal in the status data for assigning the speaker to a speaker group, and means for selectively activating the speaker based on the speaker group to which the speaker is assigned to it.

44. (Currently amended) The apparatus-speaker of claim 38, wherein the RF signal includes frame markers, and the speaker further including comprises means, responsive to the frame marker for synchronizing the sound broadcast by the speaker with sound broadcast with each other speaker in the wireless loudspeaker system based upon the frame marker.

45. (Cancelled) The apparatus of claim 44, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

46. (Cancelled) The apparatus of claim 45, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

47. (Cancelled) The apparatus of claim 45, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

48. (Currently added) The speaker of claim 1, the means for generating a derived sample clock comprising means for obtaining a direct sequence spread spectrum chip clock having a rate equal to an integer multiple of a rate of an audio sample clock.

AMENDMENTS TO THE DRAWINGS

Corrected drawings are hereby submitted. Replacement drawing sheets 1-18 are attached to this paper.